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Jameco Part Number 226211 (PSA-60-302)

PHIHONG ENTERPRISE CO., LTD.
SWITCHING POWER SUPPLY
SPECIFICATION

MODEL: PSA-60-302
DWG NO: PES10596

ISSUED: 03-17-92
REV B : 04-15-93

1. Input

- 1.1 AC Input voltage rating: 100VAC to 240VAC
1.2 AC Input voltage range: 90VAC to 260VAC
1.3 AC Input frequency: 47 Hz to 63 Hz
1.4 Max. In-rush current: 15A for 120VAC
30A for 240VAC
1.5 Input current: 2 A MAX.

2. Output

	Output +5VDC		Output +12VDC		Output -12VDC	
2.1 O/P voltage:						
2.2 O/P voltage adj:	+-1 %		-----		-----	
2.3 Min. load current:	1	A	0.1	A	0.1	A
2.4 Rated load current:	6	A	1.2	A	1.2	A
2.5 Max. load current: (Convection cooled 60W Max)	8	A	1.8	A	1.8	A
2.6 Line regulation:	+-	2 %	+-	5%	+-	5%
2.7 Load regulation:	+-	2 %	+-	5%	+-	5%
2.8 Cross regulation: (Specification of cross regulation:	+-	2 %	+-	5%	+-	5%
			I(5V)/I(+12V)<=5)			
2.9 Ripple :	50mV		120mV*		120mV	

(20MHz bandwith, peak to peak. ripple & noise is measured by using a 12" twisted wire terminated with a 10uf capacitor in parallel 0.1uf ceramic capacitor, connect the primary and secondary ground holes together by jumper wire or by mounting screws to metal case under.

* +12V Ripple test condition at AC input 100V~240V



3. Overall performance

- 3.1 Total output power: Convection cooled 60W
- 3.2 Efficiency: 70% typical (65% min) at normal load and 120VAC input.
- 3.3 Hold up time: 12ms at normal load and 120VAC input.
- 3.4 switching frequency: 50KHz typical

4. Features

- 4.1 Over current protection: All outputs equipped with short circuit protection - auto restart.
- 4.2 Over voltage protection: Only +5VDC at 5.6V to 6.5V
- 4.3 Leakage current: 240VAC, 50Hz / 0.75mA max.

5. Environmental

- 5.1 Altitude: operation 10,000 feet max.
non-operating 40,000 feet max.
- 5.2 Temperature: operation 0°C to +50°C
non-operating -25°C to +85°C
- 5.3 Relative Humidity: non-operating 5% to 95%
- 5.4 Vibration: Three orthogonal axes, sweep at 1 octave/min.
5min dwell at four major resonances -----
0.75 G peak 5Hz to 500Hz.

6. Safety Standard:

Designed to meet the standard of:

UL 1950, CSA 22.2 1402C EN 60950 (IEC-950)
VDE 0805

7. EMI Standard:

Meets the conduction limits of: (a) FCC class B
(b) VFG 243 class B



8. Dielectric Withstand (HIPOT) test:

8.1 Input to output: 2200VDC for 1min 10mA

9. Insulation resistance

9.1 Input to output: 7 Mohm min

10. MTBF: 50 KHrs. full load at 25°C ambient temperature.

11. Mechanical

11.1 Dimensions: 5.0 inch (127mm) long
3.0 inch (76.2mm) width
1.58 inch (40mm) height

11.2 Weight 0.36kg

12. Connections

Refer to mechanical drawing for connector location

WAFER	PIN NO.	Signal name
CN2	1	+12V
	2	+5 V
	3	+5 V
	4	GND
	5	GND
	6	-12V